Supporting Information

Mimicking nature's strategies for the design of nanocatalysts

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Entry	Peptide	Peptide Sequence	Specificity	Particle Shape	Reference
1	Pd4	TSNAVHPTLRHL	Pd	Spherical nanoparticles	7b, 24
2	A6	TSNAVAPTLRHL	Pd	Spherical nanoparticles	3a
3	A11	TSNAVHPTLRAL	Pd	Spherical nanoparticles	3a
4	A6,11	TSNAVAPTLRAL	Pd	Spherical nanoparticles	3a
5	R5	SSKKSGSYSGSKGSKRRIL	Pd, SiO ₂	Spheres, 1-D Nanoribbons and Nanoparticle Networks (NPNs)	3b, 23, 30b
6	Τ7	TLTTLTN	Pt	Pt Nanocubes	22a
7	S7	SSFPEPD	Pt	Pt Nanotetrahedrons	22a
8	BP7A	TLHVSSY	Pt	Pt Bipods, Tripods and Tetrapods	22b
9	A3	AYSSGAPPMPPF	Au	Peptide coated Spherical nanoparticles	13
10	FlgA3	DYKDDDDKPAYSSGAPPMPPF	Au and Pd	Spherical nanoparticles	7d
11	FIgA3C	DYKDDDDKPAYSSGAPPMPPFC	CdS and Pt	Spheroidal nanoparticles	7c

Table S1. Materials-directing peptides discussed in the perspective and their target materials